Temperature Controller
900-TC8 Option Boards

900-TC8EIM
Event Input

900-TC8COM (B)
RS-485 Communications

900-TC8232 (B)
RS-232 Communications

RA1 1617253-1A
41063-070-01 (3)
Printed In China
Rockwell Automation

For detailed operating instructions, please refer to the 900-TC8 User's Manual. It can be found online at: http://www.ab.com/manuals/

Contents of option board box

Make sure the box contains the following items:

- Instruction Manual
- Terminal Label
- Option Board

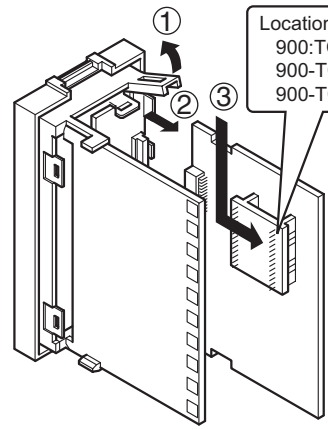
Name	Model	Function
Communications	900-TC8COM	Communication (RS-485)
Communications	900-TC8232	Communication (RS-232)
Event input	900-TC8EIM	Event input

Specifications

900-TC8EIM	Contact input	ON: 1k Ohm max.,OFF: 100k Ohm min.
	No-contact input (SSR)	ON state voltage drop 1.5 V max. OFF state leakage current 0.1 mA max.
900-TC8232 900-TC8COM	Interface: RS-232, RS-485 Communications method: Half duplex Synchronization method: Start-stop (asynchronous) Baud rate: 1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 kbps	

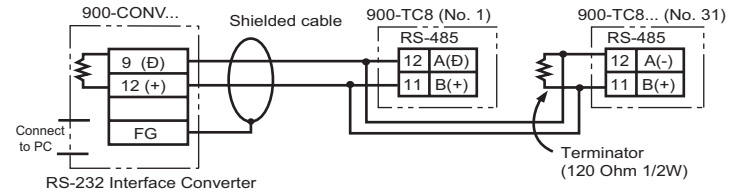
Installing Board

To prevent electrostatic damage to the board, make sure you are properly grounded before installing it. Follow steps below.

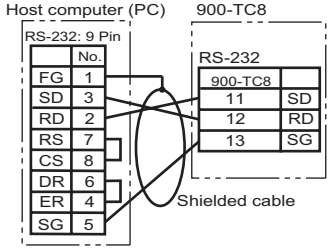


Location for boards:
900:TC8EIM: Event input
900-TC8232: RS-232
900-TC8COM: RS-485

Wiring 900-TC8COM

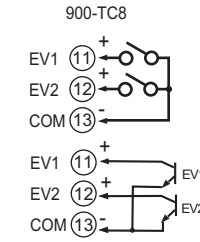


Wiring 900-TC8232



*Only one controller per host PC
*Cable length should not exceed 15 meters (50 ft).
* Use shielded twisted pair leads (AWG24 to AWG14 [equal to cross sectional areas of 0.205 to 2.081mm^2]) for the cables.
* A 10 ft pre-made cable with 9 pin D-shell connector and open leads is available (900-CP1X).

Wiring 900-TC8EIM



* The RS-485 total cable length should not exceed 500 meters.
* Use shielded twisted pair leads (AWG24 to AWG14 [equal to cross sectional areas of 0.205 to 2.081mm^2])
* Attach terminators to the controllers at both ends of a series of controllers connected in an open configuration. For example in the configuration shown, connect a terminator to the RS232 Interface Converter and connect a terminator to device number 31.
*Up to 32 controllers including the host computer can be connected.

*Do not apply voltage to event input terminals.

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Temperaturregler
Zusatzplatinen 900-TC8

900-TC8EIM
Ereigniseingang

900-TC8COM (B)
RS-485-Kommunikation

900-TC8232 (B)
RS-232-Kommunikation

41063-070-01 (3)
Printed In China
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Eine detaillierte Bedienungsanleitung finden Sie im Benutzerhandbuch des 900-TC8 online unter der Adresse: http://www.ab.com/manuals/.

Inhalt der Verpackung

In der Verpackung sind die folgenden Komponenten enthalten:

- Anleitungshandbuch
- Klemmenetikett
- Zusatzplatine

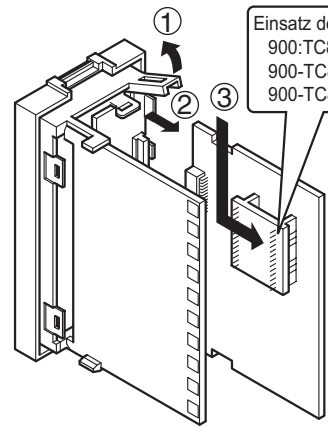
Bezeichnung	Ausführung	Funktion
Kommunikation	900-TC8COM	Kommunikation (RS-485)
Kommunikation	900-TC8232	Kommunikation (RS-232)
Ereigniseingang	900-TC8EIM	Ereigniseingang

Technische Daten

900-TC8EIM	Kontakteingang	EIN: max. 1 kOhm, AUS: mind. 100 kOhm
	Schlie§erkontakteingang (elektronisches Relais)	Spannungsabfall im EIN-Zustand: max. 1,5 V Leckstrom im AUS-Zustand: max. 0,1 mA
900-TC8232 900-TC8COM	Schnittstelle: RS-232, RS-485 Kommunikation: Halbduplex Synchronisation: Start/Stopp (asynchron) Baudrate: 1,2 / 2,4 / 4,8 / 9,6 / 19,2 / 38,4 kBit/s	

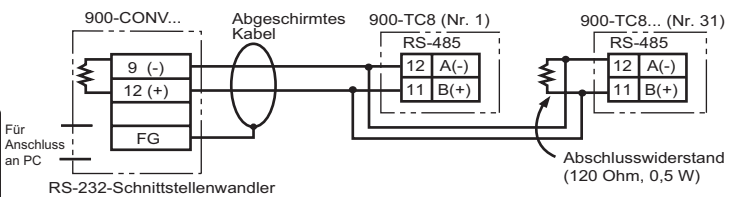
Einbau der Platine

Um eine durch elektrostatische Entladung verursachte Beschädigung der Platine zu vermeiden, müssen Sie vor der Installation sicherstellen, dass Sie ordnungsgemäß geerdet sind. Beachten Sie Folgendes:

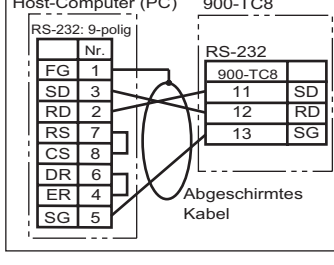


Einsatz der Platinen:
900:TC8EIM: Ereigniseingang
900-TC8232: RS-232
900-TC8COM: RS-485

Verdrahtung der 900-TC8COM

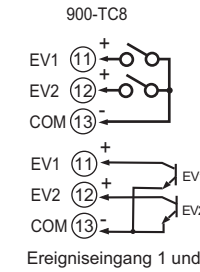


Verdrahtung der 900-TC8232



* Jeweils nur ein Regler je Host-PC
* Die Länge des Kabels sollte höchstens 15 Meter betragen.
* Für die Kabel sind abgeschirmte Twisted-Pair-Leiter (AWG 24 bis AWG 14 [entspricht Querschnitt von 0,205 bis 2, 081 mm2]) erforderlich.
* Ein 3 Meter langes Kabel mit 9 poligem D-Anschluss-Stecker und offenen Leitern ist lieferbar (900-CP1X).

Verdrahtung der 900-TC8EIM



* Die gesamte RS-485-Kabellänge sollte maximal 500 Meter betragen.
* Für die Kabel sind abgeschirmte Twisted-Pair-Leiter ((AWG 24 bis AWG 14 [entspricht Querschnitt von 0,205 bis 2, 081 mm2]) erforderlich.
* Bei einer offenen Konfiguration müssen die Abschlusswiderstände an den Reglern an beiden Enden einer Reihe von Reglern angebracht werden. Beispielsweise wird in der abgebildeten Konfiguration jeweils ein Abschlusswiderstand an den RS232-Schnittstellenwandler und an Gerät Nr. 31 angeschlossen.
* Es kännen bis zu 32 Regler, einschließlich Host-Computer, angeschlossen werden.

* An die Ereigniseingangsklemmen darf keine Spannung angelegt werden.

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Contrôleur de température
Cartes optionnelles 900-TC8

900-TC8EIM
Entrée d'événement

900-TC8COM (B)
Communications RS-485

900-TC8232 (B)
Communications RS-232

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Pour connaître le détail des instructions de fonctionnement, veuillez consulter le manuel utilisateur 900-TC8. Il peut être trouvé en ligne sur le site : http://www.ab.com/manuals/

Contenus de l'emballage de l'option

Vérifiez que la boîte contient les articles suivants :

- Manuel d'instructions
- Etiquette de bornier
- Carte optionnelle

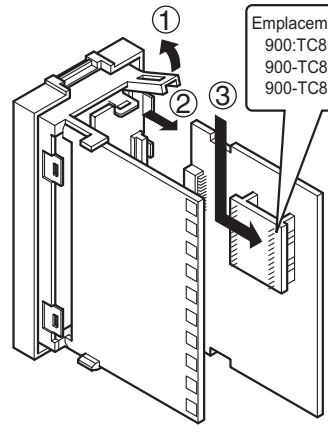
Nom	Modèle	Fonction
Communications	900-TC8COM	Communication (RS-485)
Communications	900-TC8232	Communication (RS-232)
Entrée événement	900-TC8EIM	Entrée événement

CaractŽristiques

900-TC8EIM	Contact d'entrée	ON : 1 kOhms maxi., OFF : 100 kOhms mini.
	Pas de contact d'entrée (relais statique)	Etat ON, chute de tension maxi. 1,5 V Etat OFF, courant de fuite maxi. 0,1 mA.
900-TC8232 900-TC8COM	Interface : RS-232, RS-485 Méthode de communication : Half duplex Méthode de synchronisation : Marche-Arrêt (asynchrone) Vitesse en Baud : 1,2 / 2,4 / 4,8 / 9,6 / 19,2 / 38,4 kBauds	

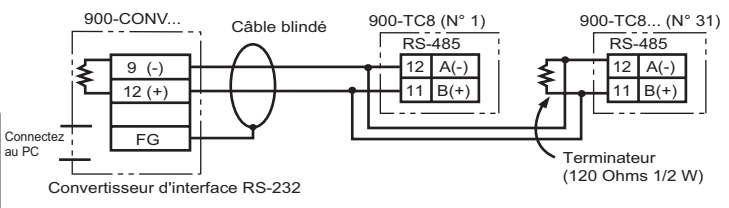
Installation de la carte

Pour éviter les détériorations électrostatiques, vérifiez que vous êtes correctement mis à la terre avant de l'installer. Suivez les étapes ci-dessous.

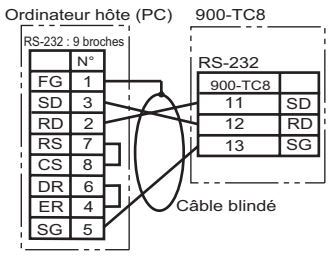


Emplacement des cartes :
900:TC8EIM : Entrée événement
900-TC8232 : RS-232
900-TC8COM : RS-485

Câblage de la carte 900-TC8COM

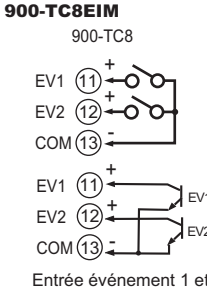


Câblage de la carte 900-TC8232



* Seulement un contrôleur par PC hôte.
* La longueur de câble ne doit pas dépasser 15 mètres (50 pieds).
* Pour les câbles, utilisez des paires torsadées blindées (AWG24 à AWG14 [égal à des sections de 0,205 à 2,081 mm2]).
* Un câble préfabriqué de 3 mètres équipé d'un connecteur D-shell 9 broches et de conducteurs nus est disponible (900-CP1X).

Câblage de la carte 900-TC8EIM



* La longueur totale du câble RS-485 ne doit pas dépasser 500 mètres.
* Pour les câbles, utilisez des paires torsadées blindées (AWG24 à AWG14 [égal à des sections de 0,205 à 2,081 mm2]).
* Attachez les terminateurs sur les contrôleurs situés aux extrémités d'une série de contrôleurs branchés en une configuration ouverte.Par exemple, dans la configuration illustrée, branchez un terminateur sur le convertisseur d'interface RS232 et un autre sur le dispositif numéro 31.
* Jusqu'à 32 contrôleurs, y compris l'ordinateur, peuvent être connectés.

* N'appliquez pas de tension sur les bornes d'entrée d'événement.

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Controlador de temperatura

Placas opcionais 900-TC8

900-TC8EIM
Entrada de eventos

900-TC8COM (B)
Comunicações RS-485

900-TC8232 (B)
Comunicações RS-232

RA1

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Para instruções operacionais detalhadas, consulte o Manual do Usuário 900-TC8. Ele pode ser encontrado online em: http://www.ab.com/manuals/

Conteúdo da caixa de placa opcional

Certifique-se de que a caixa contenha os seguintes itens:

- Manual de instruções
- Etiqueta do terminal
- Placa opcional

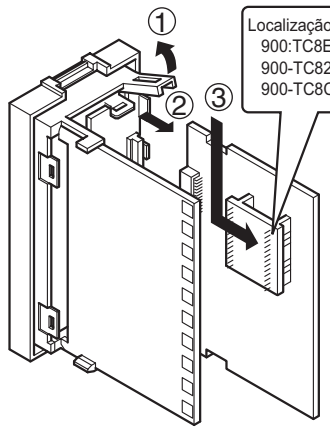
Nome	Modelo	Fun ‹o
Comunicações	900-TC8COM	Comunicação (RS-485)
Comunicações	900-TC8232	Comunicação (RS-232)
Entrada de eventos	900-TC8EIM	Entrada de eventos

Especificações

900-TC8EIM	Entrada de contato	ON (LIGADO): máx. 1k Ohm, OFF (DESLIGADO): mín. 100k Ohm
	Entrada sem contato (SSR)	Estado ON (LIGADO) - queda máx. de tensão de 1,5 V Estado OFF (DESLIGADO) - corrente de fuga máx. 0,1 mA
900-TC8232 900-TC8COM	Interface: RS-232, RS-485 Método de comunicações: Semiduplex Método de sincronização: Início-parada (assíncrona) Taxa de baud: 1,2 / 2,4 / 4,8 / 9,6 / 19,2 / 38,4 kbps	

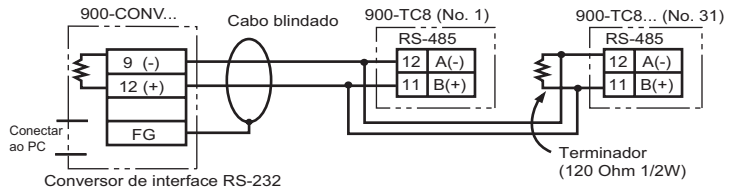
Instalação da placa

Para evitar dano eletrostático na placa, certifique-se de que você esteja devidamente aterrado antes de instalá-la. Siga as etapas abaixo.

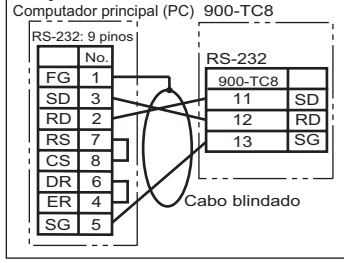


Localização para as placas:
900:TC8EIM: Entrada de eventos
900-TC8232: RS-232
900-TC8COM: RS-485

Fiação do 900-TC8COM

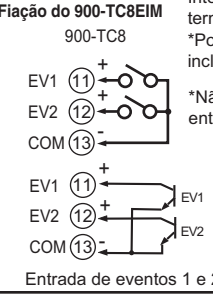


Fiação do 900-TC8232



*Somente um controlador por PC principal (host)
*O comprimento do cabo não deve exceder 15 metros (50 pés).
*Use fios com pares torcidos blindados (AWG24 to AWG14 [equal to cross sectional areas of 0.205 to 2.081mm²]) para os cabos.
*Um cabo pré-fabricado de 10 pés (3 metros) com conector D-shell de 9 pinos e fios expostos se encontra dispon'vel (900-CP1X).

Fiação do 900-TC8EIM



Entrada de eventos 1 e 2

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* O comprimento total do cabo do RS-485 não deve ser superior a 500 metros.
* Use fios com pares torcidos blindados (AWG24 to AWG14 [equal to cross sectional areas of 0.205 to 2.081mm²]) para os cabos.
* Conecte os terminadores aos controladores nas duas extremidades de uma série de controladores conectados em uma configuração aberta.Por exemplo, na configuração ilustrada, conecte o terminador ao Conversor de Interface RS232 e conecte um terminador ao dispositivo número 31.
*Pode-se conectar até 32 controladores, incluindo o computador principal (host).

*Não aplique tensão aos terminais de entrada de eventos.

Controller della temperatura

Schede opzionali 900-TC8

900-TC8EIM
Ingresso eventi

900-TC8COM (B)
Comunicazioni RS-485

900-TC8232 (B)
Comunicazioni RS-232

41063-070-01 (3)
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Per istruzioni dettagliate sul funzionamento, consultare il Manuale per l'utente del modello 900-TC8. Disponibile online all'indirizzo: http://www.ab.com/manuals/

Contenuto della confezione della scheda opzionale

Accertarsi che la confezione contenga i componenti elencati:

- Manuale di istruzioni
- Etichetta dei terminali
- Scheda opzionale

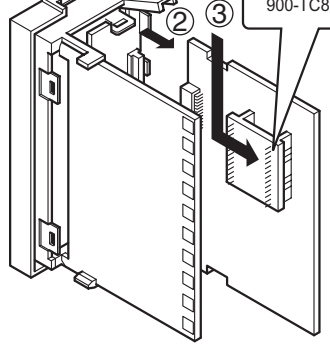
Nome	Modello	Funzione
Comunicazioni	900-TC8COM	Comunicazione (RS-485)
Comunicazioni	900-TC8232	Comunicazione (RS-232)
Ingresso eventi	900-TC8EIM	Ingresso eventi

Specifiche

900-TC8EIM	Ingresso contatti	ON: 1k Ohm max, OFF: 100k Ohm min.
	Ingresso senza contatti (SSR)	ON: caduta di tensione 1,5 V max. OFF: dispersione di corrente 0,1 mA max.
900-TC8232 900-TC8COM	Interfaccia: RS-232, RS-485 Metodo di comunicazione: half-duplex Metodo di comunicazione: avvio-arresto (asincrono) Velocità di trasmissione: 1,2 / 2,4 / 4,8 / 9,6 / 19,2 / 38,4 kbps	

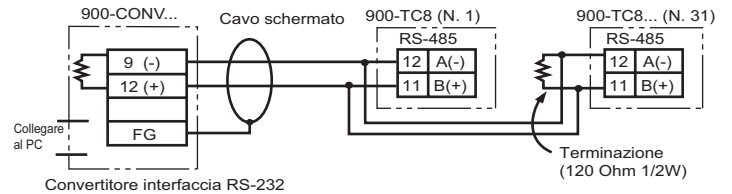
Installazione della scheda

Per impedire danni elettrostatici alla scheda, accertarsi che sia ben messa a terra prima di installarla. Attenersi alle fasi di cui sotto.

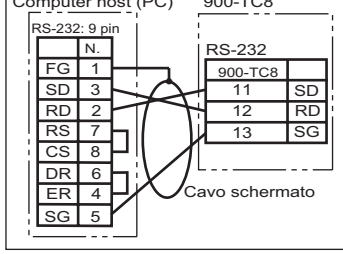


Ubicazione schede:
900:TC8EIM: ingresso eventi
900-TC8232: RS-232
900-TC8COM: RS-485

Cablaggio 900-TC8COM

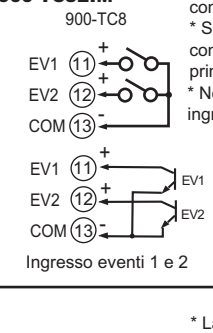


Cablaggio di 900-TC8232



*Solo un controller per PC host
*La lunghezza del cavo motore non deve superare i 15 metri (50 piedi).
*Usare conduttori a coppia intrecciata schermata (da AWG24 a AWG14 [pari alle aree di intersezione da 0,205 a 2,081mm2]) per i cavi.
*Sono disponibili un cavo preparato lungo 3 metri (10 piedi) con connettore mini-D a 9 pin e conduttori aperti (900-CP1X).

Cablaggio di 900-TC8EIM



Ingresso eventi 1 e 2

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* La lunghezza totale del cavo RS-485 non deve superare i 500 metri.
* Usare conduttori a coppia intrecciata schermata (da AWG24 a AWG14 [pari alle aree di intersezione da 0,205 a 2,081mm2]) per i cavi.
* Attaccare le terminazioni ai controller su entrambe le estremità di una serie di controller collegati in una configurazioneaperta.Ad esempio, nella configurazione che segue, collegare una terminazione al convertitore di interfaccia RS232 ed una al dispositivo numero 31.
*È possibile collegare un massimo di 32 controller, incluso il computer host.
* Se puede conectar un máximo de 32 controladores incluyendo la computadora principal.
* Non inviare tensione ai terminali di ingresso eventi.

Controlador de temperatura

Tarjetas de opción 900-TC8

900-TC8EIM
Entrada de eventos

900-TC8COM (B)
Comunicaciones RS-485

900-TC8232 (B)
Comunicaciones RS-232

41063-070-01 (3)
Printed in China

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Si desea obtener instrucciones detalladas de funcionamiento, consulte el Manual del Usuario 900-TC8. Se puede obtener en l'nea en: http://www.ab.com/manuals/

Contenidos de una caja de tarjetas de opciones

Asegœrese de que la caja contenga los componentes indicados a continuación:

- Manual de Instrucciones
- Etiqueta de terminal
- Tarjeta de opciones

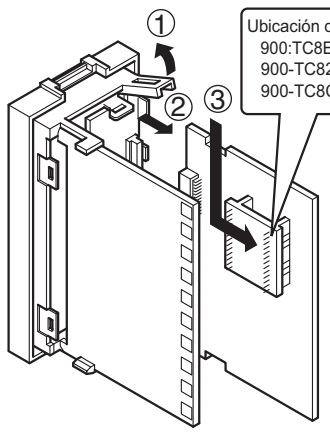
Nombre	Modelo	Función
Comunicaciones	900-TC8COM	Comunicación (RS-485)
Comunicaciones	900-TC8232	Comunicación (RS-232)
Entrada de eventos	900-TC8EIM	Entrada de eventos

Especificaciones

900-TC8EIM	Entrada de contacto	ON: 1 kOhmio máx., OFF: 100 kOhmios mín.
	Entrada sin contacto (SSR)	Caída de tensión en estado encendido (ON) 1,5 V máx. Fuga de corriente en estado apagado (OFF) 0,1 mA máx.
900-TC8232 900-TC8COM	Interfaz: RS-232, RS-485 Método de comunicaciones: Half duplex Método de sincronización: Arranque - parada (asincrónico) Velocidad en Baudios: 1,2 / 2,4 / 4,8 / 9,6 / 19,2 / 38,4 kbps	

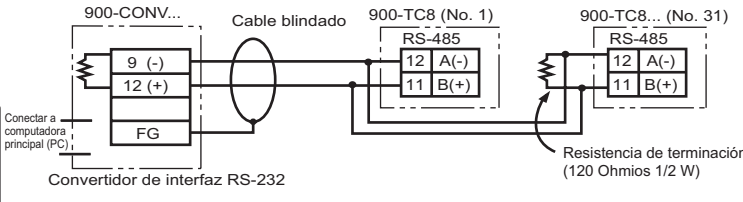
Instalación de la tarjeta

A fin de prevenir el daño electrostático a la tarjeta, asegœrese de estar debidamente conectado a tierra antes de instalarla. Siga los pasos descritos a continuación.

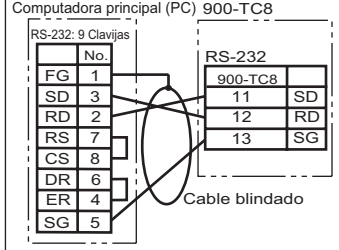


Ubicación de las tarjetas:
900:TC8EIM: Entrada de eventos
900-TC8232: RS-232
900-TC8COM: RS-485

Cableado del 900-TC8COM

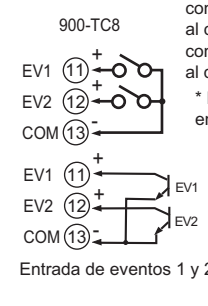


Cableado 900-TC8232



*Sólo un controlador por computadora principal
*La longitud del cable no debe exceder 15 metros (50 pies).
* Use conductores blindados de par retorcido (De AWG24 a AWG14 [equivalente a áreas transversales de entre 0,205 a 2,081 mm2]) para los cables.
* Hay disponible un cable prefabricado de 10 pies con un conector envolvente D de 9 clavijas y conductores abiertos (900-CP1X).

Cableado 900-TC8EIM



Entrada de eventos 1 y 2

Allen-Bradley Company, LLC
Industrial Components Business
1201 South Second Street
Milwaukee, WI 53204-2496 USA
Teléfono ++ 1.440.646.5800

Rockwell Automation
CH-5001 Aarau, Switzerland
FAX ++41.62.837.2202

* La longitud total del cable RS-485 no debe exceder 500 metros.
* Use conductores blindados de par retorcido (De AWG24 a AWG14 [equivalente a áreas transversales de entre 0,205 a 2,081 mm2]) para los cables.
* Acople las resistencias de terminación a los controladores en ambos extremos duna serie de controladores conectados en
una configuración abierta. Por ejemplo en la configuración que se muestra, conecte una resistencia de terminación al convertidor de interfaz RS232 y conecte una resistencia de terminación al dispositivo nœmero 31.
* No aplique tensión a los terminales de entrada de eventos.